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# Entomological Status Based on Vector Density Index and Transovarial Infection on *Aedes Sp.* Mosquito in Meteseh Village, Semarang City

Martini Martini<sup>1\*</sup>, Zufri Armen<sup>1</sup>, Kusariana Nissa<sup>1</sup>, Hestningsih Retno<sup>1</sup>, Yuliawati Sri<sup>1</sup>, Mawarni Atik<sup>2</sup> and Purwantisari Susiana<sup>3</sup>

<sup>1</sup> Epidemiologi and Tropical Disease, Faculty of Public Health, Diponegoro University, Indonesia

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\* Corresponding author: [tinihen65@yahoo.co.id](mailto:tinihen65@yahoo.co.id)

## Abstract

*Dengue Hemorrhagic Fever* (DHF) is a disease caused by Dengue virus. In 2016, the number of DHF patients in areas of Health services of Rowosari was 247 cases, IR 289.6/100.000 populations and the highest number of the patients was from Meteseh Village. The most usual mechanism happened in the vertical transmission, transovarial infection, from adult mosquito to the egg. The study was conducted to describe of entomological status of *House Index* (HI), *Container Index* (CI), *Breteau Index* (BI), *House index* (HI), *Ovitrap Index* (OI) of larvae as well as transovarial infection in Aedes sp. The research method was descriptive method by conducting test to the entomology status of DHF incidence. Based on the survey in Meteseh sub-village (XVI), a result found that average House Index 8.99%, Container Index 2.88%, Breteau Index 16.40%, HI 8,99 Ovitrap Index 35.46% with the egg density at 1.023 eggs. The identified mosquitoes were 30, and from the identification result of Aedes sp., two Aedes species were found, 28 Aedes aegypti, and only 2 Aedes albopictus. The transovarial infection in Aedes sp. using ELISA method was found 6 mosquito samples which were positive of dengue virus, with the detail in neighborhood 01 (1 sample), neighborhood 02 (2 samples), neighborhood 03 (3 samples). DHF in Meteseh Sub village in Semarang City was probably happened because correlated with transovarial infection.

**Key words:** Entomology Status / Aedes sp / DHF / Transovarial infection

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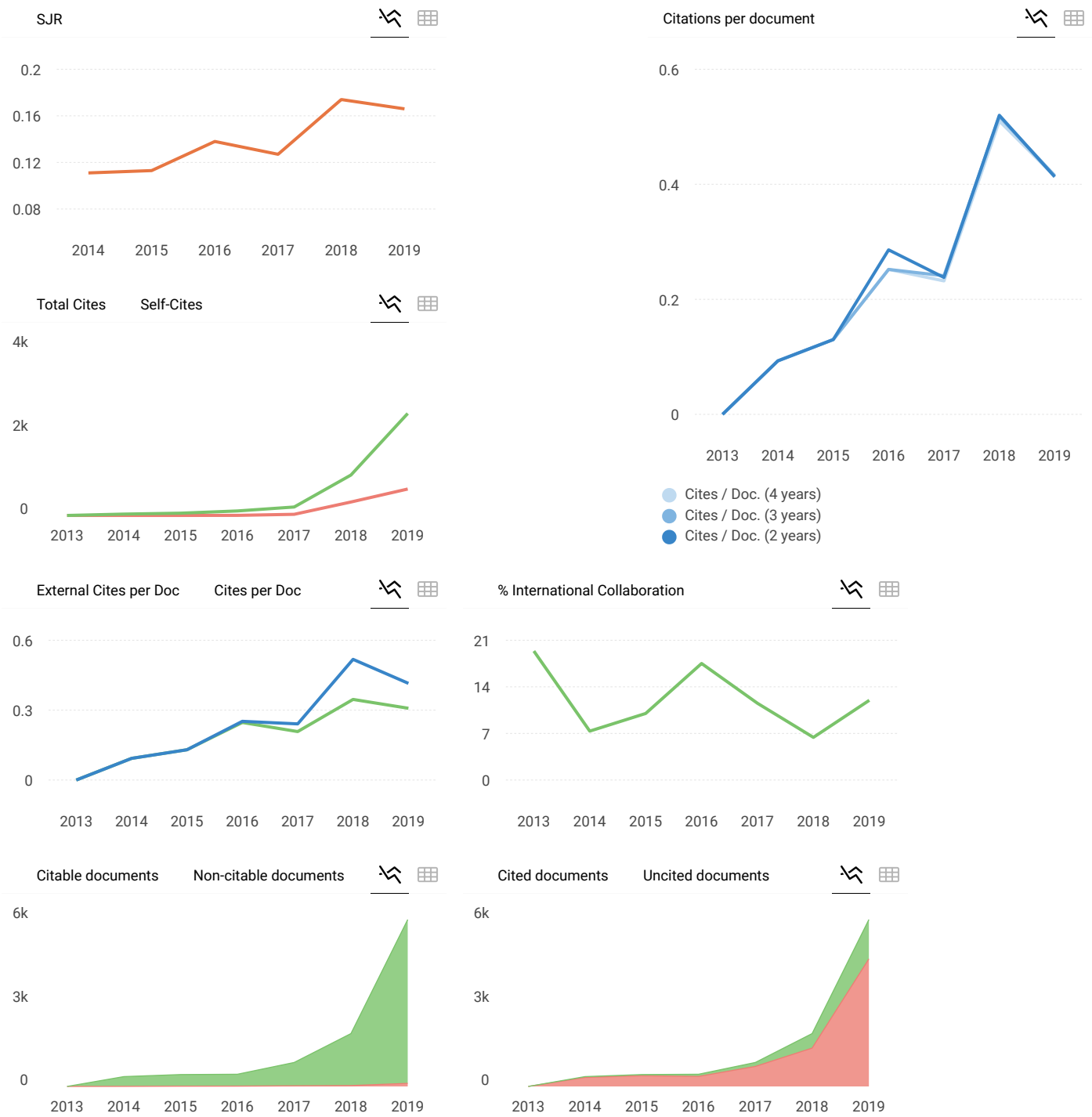
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